LIPID COMPOSITIONS AND METHODS OF USE

ABSTRACT OF THE DISCLOSURE

The present invention relates to a composition comprising: a C12 to C24 branched or unbranched hydrocarbon; a mid-chain triglyceride; a C26 to C36 branched or unbranched hydrocarbon; a cholesteryl ester; an ester of a C10 to C24 fatty acid and a C10 to C20 alcohol; an ester of a C10 to C24 fatty acid and a C21 to C34 alcohol; glycerol; and a polar lipid; and to methods of making and methods of using the composition to treat lipid tear deficiency (LTD), aqueous tear deficiency (ATD), a combination of LTD and ATD, and other dry eye conditions. The composition is substantially free of water and substantially free of an artificial surfactant. A method of administering an ointment comprising a lipid composition to treat dry eye, while achieving sustained release of the ointment and preventing a blurring of vision by the ointment, comprises applying the ointment to the inferior lid margin of the outside skin of the lower eyelid or to the superior lid margin of the outside skin of the upper eyelid, and allowing the ointment to diffuse onto the eye. Also disclosed is the use of kinetic analysis of tear interference images to analyze an individual's precorneal lipid film spread to identify LTD or to evaluate response to LTD treatment in order to adjust percentages of lipids in the composition.